Tidke Aditya Kishor
UG (IV Year I Semester)
B.Tech. (Civil Engineering)
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Registration No: 19113150/2023

Indian Institute of
Technology
Roorkee

VERIFIED

Area of Interest

Data Structures and Algorithms, Software Development, Machine Learning

Education

Year	Degree/Examination	Institution/Board	CGPA/ Percentage
2022	B.Tech. 3rd Year	Indian Institute of Technology, Roorkee	7.020
2019	Intermediate (Class XII)	Dr. Ambedkar College	86.15 %
2017	Matriculate (Class X)	Bharti Krishna Vidhya Vihar	10.000

Internships

Summer research intern | IIT Roorkee   June 2022 - July 2022
- Facilitated the assessment of mineral aggregates by projecting particle size distribution with the help of computer vision and neural networks.
- Developed a sieveless method for the particle size distribution analysis and reduced the manual labor required for aggregate analysis.

Projects

G+1 floor plan | IIT Roorkee   February 2021 - May 2021
- Designed a blueprint of a residential building having a ground, first floor, and several features, using AutoCAD software.
- Analysed the safety parameters of various types of loads on all the slabs, beams, columns and footings of the building.
- Required software and technology: AutoCad, StaadPro

Rope Climbing Robot | Models & Robotics Section, IIT Roorkee   January 2020 - March 2020
- Worked with a team on a rope climbing bot aimed to climb ropes in an easy and efficient manner to reduce manual labor.
- Design and creation of a model was under the guidance of Models & Robotics Section, IIT Roorkee and Tinkering Lab IIT Roorkee.

Automated Traffic Data Extractor | IIT Roorkee   January 2022 - May 2022
- Worked on a project to get microscopic data on the traffic conditions on a road.
- The project included vehicle detection, vehicle object tracking, speed estimation of the vehicles, and lane detection of the vehicles on a road.
- Model required YOLOv3 object detection model, DeepSort algorithm to track the objects.

Skills

Computer languages   Python, C/C++, HTML, CSS
Software Packages   Keras, Tensorflow, Scikit-learn, Pandas, Matplotlib, Git, MS Office, AutoCad, ArcGis, StaadPro
Additional Courses   Machine Learning | Probability and Statistics I Python Data Structures I University of Michigan I Numerical Methods and Computer Programming | Behavioral economics
Languages Known   English (SRW), Hindi (SRW), Marathi(SRW)

Positions of Responsibility & Extra Curriculars

National Sports Organization, IIT Roorkee | IIT Roorkee   October 2019 - March 2020
- Active member of Squash team and undergone training in Squash and Athletics.

Inter IIT Squash team member | IIT Roorkee   July 2022 - Present
- Part of the IIT Roorkee contingent for the upcoming Inter IIT sports meet to be held in IIT Roorkee, 2022.

Colors trophy Squash team C captain | IIT Roorkee   March 2022 - April 2022
- Participated in Squash colors trophy as the captain of team C and helped manage the events of the tournament.

Research Publications

- Aditya Tidke, "Development of Inland Water Transportation in India", in "Development of Minor Ports for Internal Transport, Managing Regional Waterways and Canal Systems", Institution of Engineers India, 2022

References

Cdr Dr Bhaskar Bhandarkar
Chairman
Marine Engineering Division Board, Institution of Engineers India
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